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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/786,214A

DATE: 10/09/2003

TIME: 15:37:46

Input Set : A:\L0461-70102US00.txt

Output Set: N:\CRF4\10092003\I786214A.raw

3 <110> APPLICANT: PROBST-KEPPER, Michael  
 4 VAN DEN EYNDE, Benoit  
 5 BOON-FALLEUR, Thierry  
 7 <120> TITLE OF INVENTION: AN ANTIGENIC PEPTIDE ENCODED BY AN ALTERNATIVE OPEN READING  
 8 FRAME OF HUMAN MACROPHAGE COLONY-STIMULATING FACTOR  
 10 <130> FILE REFERENCE: L0461.70102US00  
 12 <140> CURRENT APPLICATION NUMBER: US 09/786,214A  
 13 <141> CURRENT FILING DATE: 2001-06-14  
 15 <150> PRIOR APPLICATION NUMBER: PCT/US99/20344  
 16 <151> PRIOR FILING DATE: 1999-09-03  
 18 <150> PRIOR APPLICATION NUMBER: US 60/099,077  
 19 <151> PRIOR FILING DATE: 1998-09-04  
 21 <160> NUMBER OF SEQ ID NOS: 51  
 23 <170> SOFTWARE: PatentIn Version 3.2  
 25 <210> SEQ ID NO: 1  
 26 <211> LENGTH: 43  
 27 <212> TYPE: DNA  
 28 <213> ORGANISM: Homo sapiens  
 30 <220> FEATURE:  
 31 <221> NAME/KEY: misc\_feature  
 32 <222> LOCATION: (43)..(43)  
 33 <223> OTHER INFORMATION: n = a, c, g or t/u  
 35 <400> SEQUENCE: 1

ENTERED

W--&gt; 36 ataagaatgc ggccgctaaa ctatattttttt tttttttttt tvn

43

38 <210> SEQ ID NO: 2  
 39 <211> LENGTH: 25  
 40 <212> TYPE: DNA  
 41 <213> ORGANISM: Homo sapiens  
 43 <400> SEQUENCE: 2

44 cgggatccgc cgagatgcgg gtcac  
 46 <210> SEQ ID NO: 3  
 47 <211> LENGTH: 30  
 48 <212> TYPE: DNA  
 49 <213> ORGANISM: Homo sapiens  
 51 <400> SEQUENCE: 3

25

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 54 <210> SEQ ID NO: 4  
 55 <211> LENGTH: 78  
 56 <212> TYPE: DNA  
 57 <213> ORGANISM: Homo sapiens  
 59 <220> FEATURE:

30

60 <221> NAME/KEY: CDS  
 61 <222> LOCATION: 1..75

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63 <400> SEQUENCE: 4
64 atg gct ggg ctc cct gct gtt gtt ggt ctg tct cct ggc gag cag gag      48
65 Met Ala Gly Leu Pro Ala Val Val Gly Leu Ser Pro Gly Glu Gln Glu
66   1           5           10           15
68 tat cac cga gga ggt gtc gga gta ctg tag      78
69 Tyr His Arg Gly Gly Val Gly Val Leu
70           20           25
72 <210> SEQ ID NO: 5
73 <211> LENGTH: 25
74 <212> TYPE: PRT
75 <213> ORGANISM: Homo sapiens
77 <400> SEQUENCE: 5
78 Met Ala Gly Leu Pro Ala Val Val Gly Leu Ser Pro Gly Glu Gln Glu
79   1           5           10           15
81 Tyr His Arg Gly Gly Val Gly Val Leu
82           20           25
84 <210> SEQ ID NO: 6
85 <211> LENGTH: 33
86 <212> TYPE: DNA
87 <213> ORGANISM: Homo sapiens
89 <400> SEQUENCE: 6
90 actgggcgga tctgtccctc ccacgacatg gct      33
92 <210> SEQ ID NO: 7
93 <211> LENGTH: 36
94 <212> TYPE: DNA
95 <213> ORGANISM: Homo sapiens
97 <400> SEQUENCE: 7
98 actgcccga ttcgtcacga ggtctccatc tgactg      36
100 <210> SEQ ID NO: 8
101 <211> LENGTH: 60
102 <212> TYPE: DNA
103 <213> ORGANISM: Homo sapiens
105 <220> FEATURE:
106 <221> NAME/KEY: CDS
107 <222> LOCATION: 1..60
109 <400> SEQUENCE: 8
110 atg gct ggg ctc cct gct gtt gtt ggt ctg tct cct ggc gag cag gag      48
111 Met Ala Gly Leu Pro Ala Val Val Gly Leu Ser Pro Gly Glu Gln Glu
112   1           5           10           15
114 tat cac cga gga      60
115 Tyr His Arg Gly
116           20
118 <210> SEQ ID NO: 9
119 <211> LENGTH: 20
120 <212> TYPE: PRT
121 <213> ORGANISM: Homo sapiens
123 <400> SEQUENCE: 9
124 Met Ala Gly Leu Pro Ala Val Val Gly Leu Ser Pro Gly Glu Gln Glu
125   1           5           10           15

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127 Tyr His Arg Gly
128      20
130 <210> SEQ ID NO: 10
131 <211> LENGTH: 33
132 <212> TYPE: DNA
133 <213> ORGANISM: Homo sapiens
135 <400> SEQUENCE: 10
136 actgcccgaa ttctatcctc ggtgatactc ctg      33
138 <210> SEQ ID NO: 11
139 <211> LENGTH: 42
140 <212> TYPE: DNA
141 <213> ORGANISM: Homo sapiens
143 <220> FEATURE:
144 <221> NAME/KEY: CDS
145 <222> LOCATION: 1..42
147 <400> SEQUENCE: 11
148 ctc cct gct gtt gtt ggt ctg tct cct ggc gag cag gag tat      42
149 Leu Pro Ala Val Val Gly Leu Ser Pro Gly Glu Gln Glu Tyr
150   1          5          10
152 <210> SEQ ID NO: 12
153 <211> LENGTH: 14
154 <212> TYPE: PRT
155 <213> ORGANISM: Homo sapiens
157 <400> SEQUENCE: 12
158 Leu Pro Ala Val Val Gly Leu Ser Pro Gly Glu Gln Glu Tyr
159   1          5          10
161 <210> SEQ ID NO: 13
162 <211> LENGTH: 13
163 <212> TYPE: PRT
164 <213> ORGANISM: Homo sapiens
166 <400> SEQUENCE: 13
167 Pro Ala Val Val Gly Leu Ser Pro Gly Glu Gln Glu Tyr
168   1          5          10
170 <210> SEQ ID NO: 14
171 <211> LENGTH: 13
172 <212> TYPE: PRT
173 <213> ORGANISM: Homo sapiens
175 <400> SEQUENCE: 14
176 Leu Pro Ala Val Val Gly Leu Ser Pro Gly Glu Gln Glu
177   1          5          10
179 <210> SEQ ID NO: 15
180 <211> LENGTH: 15
181 <212> TYPE: PRT
182 <213> ORGANISM: Homo sapiens
184 <400> SEQUENCE: 15
185 Ala Gly Leu Pro Ala Val Val Gly Leu Ser Pro Gly Glu Gln Glu
186   1          5          10          15
188 <210> SEQ ID NO: 16
189 <211> LENGTH: 9

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190 <212> TYPE: PRT
191 <213> ORGANISM: Homo sapiens
193 <400> SEQUENCE: 16
194  Glu Ala Asp Pro Thr Gly His Ser Tyr
195    1          5
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198 <211> LENGTH: 9
199 <212> TYPE: PRT
200 <213> ORGANISM: Homo sapiens
202 <400> SEQUENCE: 17
203  Ser Ala Tyr Gly Glu Pro Arg Lys Leu
204    1          5
206 <210> SEQ ID NO: 18
207 <211> LENGTH: 9
208 <212> TYPE: PRT
209 <213> ORGANISM: Homo sapiens
211 <400> SEQUENCE: 18
212  Glu Val Asp Pro Ile Gly His Leu Tyr
213    1          5
215 <210> SEQ ID NO: 19
216 <211> LENGTH: 9
217 <212> TYPE: PRT
218 <213> ORGANISM: Homo sapiens
220 <400> SEQUENCE: 19
221  Phe Leu Trp Gly Pro Arg Ala Leu Val
222    1          5
224 <210> SEQ ID NO: 20
225 <211> LENGTH: 10
226 <212> TYPE: PRT
227 <213> ORGANISM: Homo sapiens
229 <400> SEQUENCE: 20
230  Met Glu Val Asp Pro Ile Gly His Leu Tyr
231    1          5          10
233 <210> SEQ ID NO: 21
234 <211> LENGTH: 9
235 <212> TYPE: PRT
236 <213> ORGANISM: Homo sapiens
238 <400> SEQUENCE: 21
239  Ala Ala Arg Ala Val Phe Leu Ala Leu
240    1          5
242 <210> SEQ ID NO: 22
243 <211> LENGTH: 8
244 <212> TYPE: PRT
245 <213> ORGANISM: Homo sapiens
247 <400> SEQUENCE: 22
248  Tyr Arg Pro Arg Pro Arg Arg Tyr
249    1          5
251 <210> SEQ ID NO: 23
252 <211> LENGTH: 10

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253 <212> TYPE: PRT
254 <213> ORGANISM: Homo sapiens
256 <400> SEQUENCE: 23
257 Ser Pro Ser Ser Asn Arg Ile Arg Asn Thr
258 1 5 10
260 <210> SEQ ID NO: 24
261 <211> LENGTH: 9
262 <212> TYPE: PRT
263 <213> ORGANISM: Homo sapiens
265 <400> SEQUENCE: 24
266 Val Leu Pro Asp Val Phe Ile Arg Cys
267 1 5
269 <210> SEQ ID NO: 25
270 <211> LENGTH: 10
271 <212> TYPE: PRT
272 <213> ORGANISM: Homo sapiens
274 <400> SEQUENCE: 25
275 Val Leu Pro Asp Val Phe Ile Arg Cys Val
276 1 5 10
278 <210> SEQ ID NO: 26
279 <211> LENGTH: 9
280 <212> TYPE: PRT
281 <213> ORGANISM: Homo sapiens
283 <400> SEQUENCE: 26
284 Glu Glu Lys Leu Ile Val Val Leu Phe
285 1 5
287 <210> SEQ ID NO: 27
288 <211> LENGTH: 9
289 <212> TYPE: PRT
290 <213> ORGANISM: Homo sapiens
292 <400> SEQUENCE: 27
293 Glu Glu Lys Leu Ser Val Val Leu Phe
294 1 5
296 <210> SEQ ID NO: 28
297 <211> LENGTH: 10
298 <212> TYPE: PRT
299 <213> ORGANISM: Homo sapiens
301 <400> SEQUENCE: 28
302 Ala Cys Asp Pro His Ser Gly His Phe Val
303 1 5 10
305 <210> SEQ ID NO: 29
306 <211> LENGTH: 10
307 <212> TYPE: PRT
308 <213> ORGANISM: Homo sapiens
310 <400> SEQUENCE: 29
311 Ala Arg Asp Pro His Ser Gly His Phe Val
312 1 5 10
314 <210> SEQ ID NO: 30
315 <211> LENGTH: 9

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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 10/09/2003  
PATENT APPLICATION: US/09/786,214A      TIME: 15:37:47

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 43